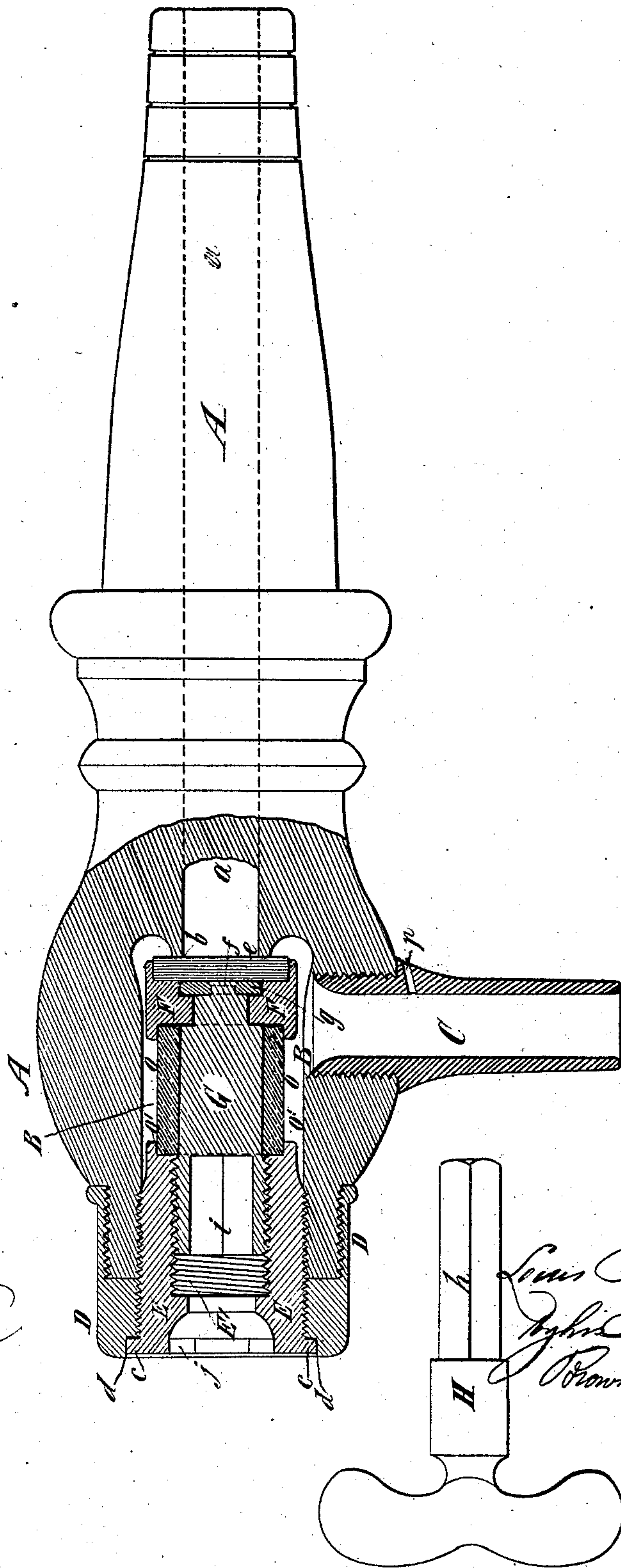


(No Model.)

L. BERGEN.
Faucet and Tap.

No. 239,427.

Patented March 29, 1881.



Witnesses

Ed. Hagner
Ed. Halzgraber

Inventor

Louis Bergen
John H. Brown
John H. Brown

UNITED STATES PATENT OFFICE.

LOUIS BERGEN, OF NEW YORK, N. Y.

FAUCET AND TAP.

SPECIFICATION forming part of Letters Patent No. 239,427, dated March 29, 1881.

Application filed January 6, 1881. (No model.)

To all whom it may concern:

Be it known that I, LOUIS BERGEN, of the city, county, and State of New York, have invented certain new and useful Improvements in Faucets or Taps, of which the following is a specification.

My invention relates particularly to faucets or taps which comprise a shell or body adapted to be driven into a cask or other liquid-receptacle; and an important object of the invention is to enable the valve of the faucet or tap to be readily removed from the shell or body, if desirable, for repairing it, for cleaning the faucet, or for other purposes.

My invention consists in the combination, with a shell or body, preferably composed of wood and constructed with a valve-chamber and a valve-seat, of a band or collar permanently secured upon said body, and provided with an internal screw-thread, a plug screwed into said band or collar, and provided with an internally screw-threaded socket, and a valve adapted to fit upon said valve-seat, and having its stem or shank screw-threaded to engage with the screw-threaded socket in said plug, whereby provision is afforded for removing the valve by simply unscrewing the plug from the band or collar. Said plug is preferably provided at its outer end with a flange, which forms a shoulder and bears against the said band or collar when the plug is screwed tightly therein, and which is adapted to fit in a recess or annular rabbet in the said band or collar, so that a hammer or mallet employed to drive the faucet or tap will strike upon said band or collar, and not upon the end of the plug. The valve is preferably swiveled or secured loosely to its stem or shank, so that it will not turn with said stem or shank when bearing against the valve-seat, thus lessening friction, and also lessening the wear of said valve and seat.

The accompanying drawing represents a partial longitudinal section of a faucet or tap embodying my improvements, and a view of a key employed to turn the valve-stem or shank to open or close the valve.

A designates a round shell or body, preferably made of wood, and tapered so that it may be readily and tightly driven into a hole

in a cask or other receptacle from which liquid is to be drawn. The shell or body A has formed within it a longitudinal passage or duct, *a*, terminating at a valve-seat *b*, and also a valve-chamber, B, from which extends an outlet spout or nozzle, C. The valve-chamber B extends through the outer or larger end of the shell or body, and upon said open end is fitted a band or collar, D, which is permanently secured upon the shell or body by being screwed or driven thereon, and prevents the splitting of the shell or body. A portion of the band or collar D is of smaller internal diameter than the remainder, and said portion extends beyond and abuts against the end of the shell or body, as clearly shown, and is internally screw-threaded.

E designates a metal plug externally screw-threaded to engage with and fit within the internal screw-thread of the band or collar D and the end of the shell or body A, and which is preferably provided with a slight flange, *c*, which abuts against the band or collar D. In order to prevent a mallet or hammer, employed to drive the faucet or tap, from striking the plug E, and thereby injuring its screw-threads, I preferably form in the outer end of the band or collar D an annular recess or rabbet, *d*, of a size to receive the flange *c*, and somewhat greater in depth than the thickness of said flange, so that the end of the plug will be back of the end of the band or collar, as clearly shown.

F designates the valve which fits upon the valve-seat *b*; and G designates the stem or shank of said valve. The valve F is cup-shaped to hold a packing, *e*, of leather or other suitable material, which may be renewed when desirable, and it has a swivel-connection with its stem or shank G, the said stem or shank having a portion, *f*, of smaller diameter inserted through a hole in the valve, and having riveted upon it a washer, *g*, to hold the valve thereon. This enables the stem or shank G to be turned without turning the valve when the latter bears against its seat, and thus reduces friction and the wear of the packing *e* and the valve-seat *b*. The valve-stem or shank G is externally screw-threaded and fits within an internally screw-threaded socket, E', in the

plug E, and as the plug is stationary the turning of the stem or shank in the said socket will advance the valve F against the valve-seat *b* to close the passage or duct *a*, or draw it back to open said passage or duct and permit the escape of liquid.

H designates a key comprising a portion, *h*, of square, polygonal, or other formation, adapted to be inserted through the plug E and into a socket, *i*, of corresponding form in the stem or shank G, thus permitting any person having a key to open or close the valve of the faucet or tap. In the plug E is a hexagon socket or seat, *j*, into which may be fitted a key for turning the plug; but any convenient tool might be employed for turning the plug, the latter being constructed accordingly.

In order to prevent the escape of any liquid around the stem or shank G and through the plug E, I preferably surround said stem or shank with a rubbersleeve, *o*, which fits snugly between the back of the valve F and the end of the plug E, and which preferably fits in an annular recess or rabbet, *o'*, in the plug to hold it in place.

It is obvious that if it be desired to remove the valve and stem or shank from the valve-chamber for the purpose of renewing the packing *e*, or for any other reason, all that is necessary is to unscrew and take the plug E, and with it the valve and its stem or shank, out through the outer end of the band or collar D. It is obvious that it may be accomplished without removing the band or collar D from the shell or body. This is advantageous because it obviates the necessity for breaking the cement, which is always employed to make a tight joint between the band or collar and the shell or body, and the application of new cement when it is replaced.

It is also obvious that inasmuch as the plug E screws into the metal band or collar D in-

stead of into the wood, a very durable faucet or tap is produced.

Preferably I provide the nozzle C with an air-inlet opening, *p*, drilled obliquely downward, to allow liquid to run out of the nozzle and valve-chamber after the valve is closed.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, in a faucet or tap with a shell or body constructed with a valve-chamber and a valve-seat, of a band or collar permanently secured thereto and provided with an internal screw-thread, a plug screwed into said band or collar so that it may be removed through the outer end thereof and provided with an internally screw-threaded socket, and a valve having an externally screw-threaded stem or shank fitting in said socket, substantially as specified.

2. The combination, in a faucet or tap with a shell or body constructed with a valve-chamber and a valve-seat, of a band or collar permanently secured thereto and provided with an internal screw-thread and with an annular recess in its outer end, a plug screwed into said band or collar and provided with a flange fitting in said recess and with an internally screw-threaded socket, and a valve having an externally screw-threaded stem or shank fitting in said socket, substantially as specified.

3. The combination of the shell or body A, having a valve-chamber, B, and a valve-seat, *b*, the band or collar D, the plug E, screwed into said band or collar and having the socket E', the stem or shank G, fitting in said socket, and the valve F, having a swivel attachment with said stem or shank, all substantially as specified.

LOUIS BERGEN.

Witnesses:

T. J. KEANE,
CHANDLER HALL.